

# STIC Search Report Biotech-Chem Library

# STIC Database Tracking Number: 12414

TO: Deborah Lambkin

Location:

Art Unit: 1626 June 8, 2004

Case Serial Number: 10/616359

From: P. Sheppard

**Location: Remsen Building** 

Phone: (571) 272-2529

sheppard@uspto.gov

| Search Notes |  |
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Access DB# 124/4/

# SEARCH REQUEST FORM

Scientific and Technical Information Center

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| Requester's Full Name:   | ch Lambilla  | Examiner #: 1/300 Date: 6/1/64  6/66 357  Hs-Format Preferred (circle) PAPER DISK E-MAIL |
| Art Unit: 1626 Phone   | Number 30 5 7/ 272   | Very Serial Number: PAPER DISK E-MAII  |
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| f more than one search is sub  | mitted, please prioritiz   | e searches in order of need.   |
|  | ************   | **************************************   |
| include the elected species or structures<br>utility of the invention. Define any term<br>known. Please attach a copy of the cov | s, keywords, synonyms, acron<br>ns that may have a special me<br>er sheet, pertinent claims, and | caning. Give examples or relevant citations, authors, etc, if abstract.                  |
| Title of Invention: HETE   | 20 ARDM-4716 6   | LOCKINASE  |
| Inventors (please provide full names   | : <u>B1721400 00</u>   | + 21 C   |
|  |  | ,  |
| Earliest Priority Filing Date:   |  |  |
| *For Sequence Searches Only* Please in   |  | (parent, child, divisional, or issued patent numbers) along with the                     |
| appropriate serial number.   | eyelxakyt<br>C   |  |
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| (0)  | 7-6-6-4  | 5 - heteroaryl (eg. fol) theazole.   |
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| STAFF USE ONLY   | Type of Search   | Vendors and cost where applicable  |
| Searcher: Shermank   |  |  |
| Searcher Phone #:  |  | and the  |
| Searcher Location:   |  |  |
| Date Searcher Picked Up:   | Bibliographic  |  |
| Date Completed: 6/8/04   | Litigation   |  |
| Searcher Prep & Review Time:   | Fulltext   |  |
| Clerical Prep Time:  | Patent Family  |  |
| Online Time:   | Other  | Other (specify)  |

PTO-1590 (8-01)

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FILE COVERS 1907 - 8 Jun 2004 VOL 140 ISS 24 FILE LAST UPDATED: 7 Jun 2004 (20040607/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

VAR G1=CB/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L5 842 SEA FILE=REGISTRY SSS FUL L3

L10 STR

VAR G1=CB/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU REP G2 = (0-1) A NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

389 SEA FILE=REGISTRY SUB=L5 SSS FUL L10 L1113 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 L12

3 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND PD=< MARCH 3, 1999 L13

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L13 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:615181 HCAPLUS

DOCUMENT NUMBER:

123:9158

TITLE:

Preparation of 2,3-diphenylpropanoates and

N-(2,3-diphenylpropanoyl) benzenesulfonamides as

endothelin antagonists

INVENTOR(S):

Greenlee, William J.; Walsh, Thomas F.

PATENT ASSIGNEE(S):

Merck and Co., Inc., USA PCT Int. Appl., 150 pp.

SOURCE:

CODEN: PIXXD2

Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATE                         | NT I       | NO.              |            | KII                     | ND         | DATE       |                      |     | A.     | PPLI | CATI | ои ис                 | Ο.  | DATE                 |      |     |            |
|------------------------------|------------|------------------|------------|-------------------------|------------|------------|----------------------|-----|--------|------|------|-----------------------|-----|----------------------|------|-----|------------|
| WO 9                         | 503:<br>W: | AM,<br>KZ,       | AU,<br>LK, | AI<br>BB,<br>LT,<br>UA, | BG,<br>LV, | MD,        | BY,                  | CA, | CN,    | CZ,  | FI,  | S769:<br>GE,<br>PL,   | HU, | 1994<br>JP,<br>RU,   | KE,  | KG, | KR,<br>SK, |
|                              | RW:        | AT,              | BE,        | CH,                     | DE,        | DK,<br>CI, |                      |     |        |      |      |                       | SN, | MC,<br>TD,           | TG   |     | SE,        |
| US 5<br>AU 9<br>AU 6<br>EP 7 | 472<br>836 | 478<br>571<br>77 |            | A<br>A                  | 1<br>2     | 1997       | 1111<br>0220<br>1120 |     | U<br>A | U 19 | 94-7 | 6798:<br>2571<br>2211 |     | 1994<br>1994<br>1994 | 0715 | <   |            |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE 19940715 <--

JP 1995-505175 19970121 JP 09500644 T2 A 19930720 US 1993-95126

PRIORITY APPLN. INFO .: A 19940707 US 1994-267981

W 19940715 WO 1994-US7693

MARPAT 123:9158 OTHER SOURCE(S):

GΙ

R1CR2R8(CR92)mR10 [I; R1,R10 = (un)substituted Ph; R2 = CO2H,AB alkoxycarbonyl, CONHSO2Ph, etc.; R8 = H, alkyl, Ph, etc.; R9 = H (cyclo)alkyl, CO2H, alkoxycarbonyl, CONH2, etc.] were prepared Thus, 4 (Me2HC) C6H4SO2NH2 was N-acylated by 3,4-methylenedioxyphenylacetic acid and the product alkylated by PhCH2Br to give title compound II. Selected I had IC50 of at least  $<50\mu M$  (sic) against endothelin binding at cloned human endothelin receptors in vitro.

163844-30-2P ΙT RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2,3-diphenylpropanoates and N-(2,3diphenylpropanoyl)benzenesulfonamides as endothelin antagonists)

L13 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

1964:4864 HCAPLUS

ACCESSION NUMBER: 60:4864 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO .: 60:885c-f Effect of organic acids of pyridyl and thiazolylamides TITLE:

on certain members of coli-typhosal, staphylococcal,

streptococcal groups and on acid-resistant

mycobacteria

Mndzhoyan, A. L.; Apoyan, N. A.; Zhuruli, L. D.; AUTHOR(S):

Ter-Zakharyan, Yu. Zh. Biol. Svoistva Khim. Soedin., Akad. Nauk Arm. SSR,

Inst. Tonkoi Organ. Khim. (1962), (1),

219-33

Journal DOCUMENT TYPE: Unavailable LANGUAGE:

SOURCE:

A series of compds. of various organic acids were obtained by using 2-aminopyridine and 4-methyl-2-aminothiazole as starting amines and varying the acid part of the mol. Aminopyridine derivs. (30) and 4-methyl-2-aminothiazole derivs. (30) were tested in vitro with respect to Escherichia coli, Shigella flexneri, Salmonella schottmuelleri, S. typhosa, Staphylococcus aureus, Streptococcus pyogenes, Mycobacterium tuberculosis, and Mycobacterium strains. Acid aliphatic derivs. and some aryl aliphatic acids appeared to be most active on microbes of coli-typhoid group. Apparently acid residues play an important role in

### Lambkin 10 616359

the creation of new biologically active compds. The action of 4-methyl-2-thiazolyl amides on S. typhosa proved to be more intensive than that of 2-pyridyl amides in reserving the same acid residue. A certain relation appears to exist between C-chain length and the tuberculocidal activity in fatty acid amides. The amides of acetic and propionic acids are most active. In relation to acid-resistant mycobacteria, the phenylamides of formic, acetic, and propionic acids are more active than the corresponding unsubstituted amides as well as those of unsatd. organic acids. Among all tested compds.,  $\alpha, \beta$ -diphenylpropionic acid 4-methyl-2-thiazolylamide possesses the highest activity on M. tuberculosis. 94378-14-0, Propionamide, N-(4-methyl-2-thiazolyl)-2,3-diphenyl-95554-57-7, Propionamide, 3-(p-nitrophenyl)-2-phenyl-N-2-pyridyl-(bactericidal action of) 94332-58-8, Propionamide, N-(4-methyl-2-thiazolyl)-3-(pnitrophenyl)-2-phenyl-(badtericidal action of) L13 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1958:25545 HCAPLUS DOCUMENT NUMBER: 52:25545 ORIGINAL REFERENCE NO.: 52:4641a-c Amides of the pyridine and thiazole series TITLE: Mndzhoyan, A. L.; Afrikyan, V. G. AUTHOR(S): Izvest. Akad. Nauk Armyan. S.S.R., Ser. Khim. Nauk ( SOURCE: **1957**), 10, 143-56 Journal DOCUMENT TYPE: Unavailable LANGUAGE: The following R1NHCOR2 (I) and R3NHCOR2 (II) (R1 = 4-methyl-2-thiazolyl and R3 = 2-pyridyl) were prepared and their activities against Mycobacterium B5 and Mycobacterium tuberculosis K6 determined (R2, and m.ps. of I and II given): H, 99-9.5°, 73-4°; Me, 135°, 66-7°; Et, 108-9°, 60-1°; Pr, 84-5°, 46-7°; Bu, 62-3°, 37-8°; Ph, 148-9°, 81-2°; PhCH2, 117-18°, 121°; Ph(CH2)2, 114°, 87°; Ph(CH2)2 117-18°, 121°; Ph(CH2)2, 114°, 87°; Ph(CH2)3, 141-2°, 69-70°; p-MeOC6H4, 97°, 80°; PhCH:CH, 148-9°, 140°; PhCH2CHMe, 114-15°, 91°; PhCH2CHPh, 104°, 84°; PhCH:CPh, 141°, 105-6°; (PhCH2)2 CH, 136°, 138°; Ph2CH, 175°, 124°; p-O2NC6H4CH:CPh, 200°, 180°; R4(CH2)2(R4 = 2-furyl). 12°, 54-5°; R4CH:CH, 200°, 154°; R4CH2CHPh, 136-7°, 105°; R4CH:CPh, 160-1°, 125°. I and II (R2 = PhCH2CHPh) were the most active bacteriostats. 94378-14-0, Propionamide, N-(4-methyl-2-thiazolyl)-2,3-diphenyl-99750-10-4, Propionamide, 2,3-diphenyl-N-2-pyridyl-(preparation of) => select hit rn 113 1-3 E1 THROUGH E5 ASSIGNED => fil reg FILE 'REGISTRY' ENTERED AT 10:52:18 ON 08 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS) Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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STRUCTURE FILE UPDATES:

DICTIONARY FILE UPDATES:

7 JUN 2004 HIGHEST RN 690625-61-7

7 JUN 2004 HIGHEST RN 690625-61-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> =>

=> s e1-e5

1 94378-14-0/BI (94378-14-0/RN) 1 163844-30-2/BI (163844-30-2/RN) 1 94332-58-8/BI (94332-58-8/RN) 1 95554-57-7/BI

(95554-57-7/RN) 1 99750-10-4/BI (99750-10-4/RN)

L14

5 (94378-14-0/BI OR 163844-30-2/BI OR 94332-58-8/BI OR 95554-57-7/BI OR 99750-10-4/BI)

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L14 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN **163844-30-2** REGISTRY

CN Benzoic acid, 4-[2-(3,5-dimethoxyphenyl)-3-oxo-3-(1H-tetrazol-5-ylamino)propyl]-3-propyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C22 H25 N5 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### 1: 123:9158 REFERENCE

L14 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

99750-10-4 REGISTRY RN

Propionamide, 2,3-diphenyl-N-2-pyridyl- (7CI) (CA INDEX NAME) CN

3D CONCORD FS

C20 H18 N2 O MF

CAOLD SR

STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER LC(\*File contains numerically searchable property data)

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: NORL (No role in record)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

### REFERENCE 1: 52:25545

- L14 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- 95554-57-7 REGISTRY RN
- Propionamide, 3-(p-nitrophenyl)-2-phenyl-N-2-pyridyl- (7CI) (CA INDEX CN NAME)
- 3D CONCORD FS
- C20 H17 N3 O3
- CA, CAOLD, CAPLUS, TOXCENTER STN Files:
- DT.CA CAplus document type: Journal
- RL.NP Roles from non-patents: NORL (No role in record)

$$\begin{array}{c|c} Ph & O \\ & \parallel & \parallel \\ O_2N & \end{array}$$

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

# REFERENCE 1: 60:4864

ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN L14

94378-14-0 REGISTRY RN

Propionamide, N-(4-methyl-2-thiazolyl)-2,3-diphenyl- (6CI, 7CI) (CA INDEX CN NAME)

3D CONCORD FS

C19 H18 N2 O S MF

STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER LC (\*File contains numerically searchable property data)

CAplus document type: Journal DT.CA

RL.NP Roles from non-patents: NORL (No role in record)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

1: 60:4864 REFERENCE

2: 52:25545 REFERENCE

L14 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

94332-58-8 REGISTRY RN

Propionamide, N-(4-methyl-2-thiazolyl)-3-(p-nitrophenyl)-2-phenyl- (7CI) CN (CA INDEX NAME)

3D CONCORD FS

C19 H17 N3 O3 S MF

STN Files: CA, CAOLD, CAPLUS, TOXCENTER

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: NORL (No role in record)

$$\begin{array}{c|c} \text{Me} & \text{N} & \text{O} & \text{Ph} \\ \parallel & \parallel & \parallel \\ \text{S} & -\text{NH} - \text{C} - \text{CH} - \text{CH}_2 \\ \end{array}$$

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 60:4864

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FILE COVERS 1907 - 8 Jun 2004 VOL 140 ISS 24 FILE LAST UPDATED: 7 Jun 2004 (20040607/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> => d stat que 115 nos
                     STR
L3
                 842 SEA FILE=REGISTRY SSS FUL L3
L5
                      STR
L10
                 389 SEA FILE=REGISTRY SUB=L5 SSS FUL L10
L11
                 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L11
3 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND PD=< MARCH 3, 1999
10 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 NOT L13
L12
L13
L15
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=> d ibib abs hitrn 115 1-10

L15 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TTTLE:

=> =>

INVENTOR(S):

Preparation of N-heteroaryl phenylacetamides and related compounds as glucokinase activators for treatment of type II diabetes
Corbett, Wendy Lea; Grimsby, Joseph Carrier
Nancy-Ellen; Kester Erin; Racha, Jagdish Kumar; Sarabu, Ramakanth; Wang,

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche AG, Switz.

SOURCE:

PCT Int. Appl., 172 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO.

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WO 2003-EP3844
                                                                  20030414
                              20031120
     WO 2003095438
                         Α1
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
              PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
              RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
              CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
              NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
              GW, ML, MR, NE, SN, TD, TG
                                               US 2003-421109
                                                                  20030423
                               20031204
                         Αl
     US 2003225283
                                            US 2002-376161P P
                                                                  20020426
PRIORITY APPLN. INFO .:
                           MARPAT 139:395954
OTHER SOURCE(S):
GΙ
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$$R^3$$
 $R^4$ 
 $R^4$ 

Title compds. I [wherein R1 and R2 = independently H, halo, AΒ (hydroxy)amino, CN, NO2, (perfluoro)alkyl, (perfluoro)alkylthio, (perfluoro)alkylsulfonyl, alkylsulfinyl, sulfonamido, OR5, or CO2R6; R3 = (un) substituted unbranched (hetero) alkyl; or CR3 = (hetero) cyclyl; R4 = CONHR6 or (un) substituted heteroaryl; R5 = H or (perfluoro)alkyl; R6 = alkyl; and pharmaceutically acceptable salts thereof] were prepared as glucokinase (GK) activators. For example, reaction of (3-chloro-4-methylsulfanylphenyl)acetic acid Me ester and trifluoromethanesulfonic acid ((R)-tetrahydrofuran-2-yl)methyl ester (preparation of starting materials given) produced 2-(3-chloro-4methylsulfanylphenyl)-3-(tetrahydrofuran-2(R)-yl)propionic acid Me ester (52%), which was saponified with 0.8M aqueous LiOH to give the acid (95.8%). Amidation with 2-aminopyrazine (66.1%) in the presence of DMF and oxalyl chloride in CH2Cl2, followed by oxidation with 30% aqueous hydrogen peroxide afforded II (67.1%). SC1.5 (concentration producing a 50% increase in activity) values of  $\leq$  30  $\mu\text{M}$  for activation of human liver GK1 expressed in E. coli as a glutathione S-transferase fusion protein (GST-GT) were obtained for all of the synthesized invention compds. Thus, I and their pharmaceutical compns. are useful in the treatment of type II diabetes (no data).

625112-91-6P, 2-(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-N-(5-chloropyrazin-2-yl)-3-(4-oxocyclohexyl)propionamide 625113-26-0P, 2-(3,4-Dichlorophenyl)-3-(2-hydroxycyclopentyl)-N-(thiazol-2-yl)propionamide 625113-30-6P, 3-(2-Hydroxycyclopentyl)-2-[4-(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 625113-40-8P 625113-84-0P, 2-(3,4-Dichlorophenyl)-3-(3-hydroxycyclopentyl)-N-(thiazol-2-yl)propionamide 625113-89-5P, 3-(3-Hydroxycyclopentyl)-2-[4-(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 625113-95-3P 625114-16-1P, 2-(3,4-Dichlorophenyl)-3-(3-oxocyclopentyl)-N-(thiazol-2-yl)propionamide

```
625114-26-3P, 2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-(3-
    oxocyclopentyl) -N-(pyrazin-2-yl)propionamide 625114-44-5P,
    N-(5-Bromopyrazin-2-yl)-2-[3-chloro-4-(methanesulfonyl)phenyl]-3-(3-
    oxocyclopentyl)propionamide 625114-55-8P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-(4-oxocyclohexyl)-N-(pyrazin-2-yl)propionamide
    625114-61-6P, N-(5-Bromopyrazin-2-yl)-2-[3-chloro-4-
     (methanesulfonyl)phenyl]-3-(4-oxocyclohexyl)propionamide
    625114-62-7P 625114-65-0P 625114-67-2P
    625114-68-3P
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (GK activator; preparation of phenylacetamides as glucokinase activators for
        treatment of type II diabetes)
    625113-36-2P, 2-(3,4-Dichlorophenyl)-3-(2-oxocyclopentyl)-N-
ΙT
     (thiazol-2-yl)propionamide 625113-38-4P, 2-[4-
     (Methanesulfonyl)phenyl]-3-(2-oxocyclopentyl)-N-(thiazol-2-yl)propionamide
     625113-54-4P 625113-56-6P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-(2-hydroxyiminocyclopentyl)-N-(pyrazin-2-
     yl)propionamide 625113-65-7P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-[2-(methoxyimino)cyclopentyl]-N-(pyrazin-2-
     yl)propionamide 625113-67-9P, 2-(3,4-Dichlorophenyl)-3-(2,2-
     difluorocyclopentyl) -N-(thiazol-2-yl)propionamide 625114-04-7P,
     2-(3,4-Dichlorophenyl)-3-(3-methoxycyclopentyl)-N-(thiazol-2-
     yl)propionamide 625114-08-1P, Acetic acid 3-[2-(3,4-
     dichlorophenyl)-2-[(thiazol-2-yl)carbamoyl]ethyl]cyclopentyl ester
     625114-10-5P, 2-(3,4-Dichlorophenyl)-3-(3-fluorocyclopentyl)-N-
     (thiazol-2-yl)propionamide 625114-24-1P, 2-[4-
     (Methanesulfonyl)phenyl]-3-(3-oxocyclopentyl)-N-(thiazol-2-yl)propionamide
     625114-35-4P 625114-41-2P 625114-45-6P,
     2-(3,4-Dichlorophenyl)-3-(3-hydroxyiminocyclopentyl)-N-(thiazol-2-
     yl)propionamide 625114-46-7P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-(3-hydroxyiminocyclopentyl)-N-(pyrazin-2-
     yl)propionamide 625114-47-8P, N-(5-Bromopyrazin-2-yl)-2-[3-
     chloro-4-(methanesulfonyl)phenyl]-3-(3-hydroxyiminocyclopentyl)propionamid
     e 625114-48-9P, 2-(3,4-Dichlorophenyl)-3-[3-
     (methoxyimino)cyclopentyl]-N-(thiazol-2-yl)propionamide
     625114-49-0P, 2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-[3-
     (methoxyimino)cyclopentyl]-N-(pyrazin-2-yl)propionamide
     625114-50-3P, N-(5-Bromopyrazin-2-yl)-2-[3-chloro-4-
     (methanesulfonyl)phenyl]-3-[3-(methoxyimino)cyclopentyl]propionamide
     625114-51-4P, 2-(3,4-Dichlorophenyl)-3-(3,3-difluorocyclopentyl)-N-
     (thiazol-2-yl)propionamide 625114-54-7P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-(3-hydroxy-3-methylcyclopentyl)-N-(pyrazin-2-
     yl)propionamide 625114-69-4P, 2-[3-Chloro-4-
     (methanesulfonyl)phenyl]-3-(4-hydroxyiminocyclohexyl)-N-(pyrazin-2-
     yl)propionamide 625114-70-7P, N-(5-Bromopyrazin-2-yl)-2-[3-
     chloro-4-(methanesulfonyl)phenyl]-3-(4-hydroxyiminocyclohexyl)propionamide
     625114-71-8P 625114-72-9P 625114-73-0P
     625114-74-1P 625114-75-2P 625114-76-3P,
     2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-[4-(methoxyimino)cyclohexyl]-N-
     (pyrazin-2-yl)propionamide 625114-77-4P, N-(5-Bromopyrazin-2-yl)-
     2-[3-chloro-4-(methanesulfonyl)phenyl]-3-[4-(methoxyimino)cyclohexyl]propi
     onamide 625826-90-6P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
         (GK activator; preparation of phenylacetamides as glucokinase activators for
         treatment of type II diabetes)
      625113-33-9P, 2-[4-(Methanesulfonyl)phenyl]-3-[2-[(tetrahydropyran-
 ΙΤ
      2-yl)oxy]cyclopentyl]-N-(thiazol-2-yl)propionamide 625113-63-5P,
      2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-(2-oxocyclopentyl)-N-(pyrazin-2-
      yl)propionamide 625113-93-1P, 2-[4-(Methanesulfonyl)phenyl]-3-[3-
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[(tetrahydropyran-2-yl)oxy]cyclopentyl]-N-(thiazol-2-yl)propionamide 625114-02-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of phenylacetamides as glucokinase activators for treatment of type II diabetes)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:667406 HCAPLUS

DOCUMENT NUMBER:

139:214460

TITLE:

Preparation of cycloalkylheteroaryl propionamides as

glucokinase activators for treatment of type II

diabetes

INVENTOR(S):

Bizzarro, Fred Thomas; Corbett, Wendy Lea; Grippo, Joseph Francis; Haynes, Nancy-Ellen; Holland, George William; Kester, Robert Francis; Mahaney, Paige Ering

Sarabu, Ramakanth

PATENT ASSIGNEE(S):

Hoffmann-La Roche Inc., USA

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U.S., 92 pp., Cont.-in-part of U.S. 6,320,050

CODEN: USXXAM

DOCUMENT TYPE:

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PATENT INFORMATION:

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| US 6610846 US 2001039344 US 6320050 ZA 2001007833 US 2004014968 PRIORITY APPLN. INFO. | B1<br>A1<br>B2<br>A<br>A1 | 20030826<br>20011108<br>20011120<br>20021223<br>20040122 | US 2000-526143 2000  ZA 2001-7833 2001  US 2003-616359 2003  US 1999-126707P P 1999 |   |
|   |                           |  |   |   |

OTHER SOURCE(S):

MARPAT 139:214460

GΙ

Title compds. [I; R1, R2 = H, halo, amino, hydroxyamino, NO2, cyano, sulfonamido, perfluoroalkyl, alkylthio, alkylsulfonyl, alkylsulfinyl, etc.; R3 = alkyl, cycloalkyl; R4 = certain un- or monosubstituted 5- and 6-membered heteroarom. rings connected by a ring C atom; R4 (claims) = un- or monosubstituted triazine, pyrazine, or pyridazine; and their pharmaceutical acceptable salts], were prepared via amidation, for use as glucokinase activators for treatment of type II diabetes. Thus, the invention compound N-(5-chlorothiazol-2-yl)-3-cyclopentyl-2(R)-[4-

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(methanesulfonyl)phenyl]propionamide (II) was prepared by addition of
3-cyclopentyl-2(R)-[4-(methanesulfonyl)phenyl]propionic acid (preparation
given) to a stirred mixture of triphenylphosphine and N-bromosuccinimide in
methylene chloride at 0°, followed by stirring at room temperature for 30
min, addition of a solution of 2-amino-5-chlorothiazole hydrochloride and
pyridine in methylene chloride, and stirring at 25° overnight. All
of the exemplified compds. I activated glucokinase in vitro, exhibiting an
SC1.5 \leq 30 \muM. Selected invention compds. exhibited glucokinase
activator activity in vivo when administered orally to mice. Thus, I are
expected to increase insulin secretion in the treatment of type II
diabetes.
300353-44-0P, 3-Cyclopentyl-2-(4-nitrophenyl)-N-pyridin-2-
ylpropionamide
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
   (glucokinase activator, intermediate; preparation of cycloalkylheteroaryl
   propionamides as glucokinase activators)
300352-88-9P, [2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazol-4-yl]acetic acid ethyl ester
300352-92-5P, 2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazole-5-carboxylic acid ethyl ester
300352-96-9P, 3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]-N-
(thiazol-2-yl)propionamide 300352-98-1P, 2-[[3-Cyclopentyl-2-[4-
(methanesulfonyl)phenyl]propionyl]amino]thiazole-4-carboxylic acid ethyl
ester 300353-00-8P, [2-[[3-Cyclopentyl-2-[4-
(methanesulfonyl)phenyl]propionyl]amino]thiazol-4-yl]acetic acid ethyl
ester 300353-06-4P, 3-Cyclopentyl-2-[4-(methylsulfanyl)phenyl]-N-
(thiazol-2-yl)propionamide 300353-13-3P, (2R)-3-Cyclopentyl-2-[4-
(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 300353-14-4P
, 3-Cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]-N-(thiazol-2-introphenyl)-1-introphenyl]-N-(thiazol-2-introphenyl)-1-introphenyl)-1-introphenyl
yl)propionamide 300353-18-8P, [2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazol-4-yl]acetic acid
300353-19-9P, 2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazole-5-carboxylic acid
300353-20-2P, 2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazole-4-carboxylic acid
300353-24-6P, 3-Cyclopentyl-2-(4-nitrophenyl)-N-(thiazol-2-
yl)propionamide 300353-26-8P, [2-[[3-Cyclopentyl-2-(4-
nitrophenyl)propionyl]amino]thiazol-4-yl]acetic acid ethyl ester
300353-27-9P, [2-[[3-Cyclopentyl-2-(4-
nitrophenyl)propionyl]amino]thiazol-4-yl]acetic acid methyl ester
300353-29-1P, 2-[[3-Cyclopentyl-2-(4-nitrophenyl)propionyl]amino]t
hiazole-4-carboxylic acid methyl ester 300353-31-5P,
[2-[[2-(3-Chlorophenyl)-3-cyclopentylpropionyl]amino]thiazol-4-yl]acetic
acid ethyl ester 300353-34-8P, [2-[[2-(4-Chlorophenyl)-3-
cyclopentylpropionyl]amino]thiazol-4-yl]acetic acid ethyl ester
300353-35-9P, 2-[[2-(4-Chlorophenyl)-3-
cyclopentylpropionyl]amino]thiazole-4-carboxylic acid methyl ester
300353-50-8P, 6-[[3-Cyclopentyl-2(R)-(3,4-
dichlorophenyl)propionyl]amino]nicotinic acid methyl ester
300353-51-9P, 6-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]nicotinic acid 300354-23-8P,
 3-Cyclopentyl-2-(3-methoxyphenyl)-N-(thiazol-2-yl)propionamide
300354-26-1P, 3-Cyclopentyl-2-(3,4-dimethoxyphenyl)-N-(thiazol-2-
 yl)propionamide 300354-28-3P, 3-Cyclopentyl-2-(4-methoxyphenyl)-
 \overline{N}-(thiazol-2-yl)propionamide 300354-31-8P, 3-Cyclopentyl-2-(3-
 fluoro-4-methoxyphenyl)-N-(thiazol-2-yl)propionamide 300354-34-1P
  6-[[3-Cyclopentyl-2-(4-nitrophenyl)propionyl]amino]nicotinic acid methyl
 ester 300355-31-1P, 2-[[2-(4-Chlorophenyl)-3-
 cyclopentylpropionyl]amino]thiazole-4-carboxylic acid ethyl ester
 300355-33-3P, 6-[[2-(4-Chlorophenyl)-3-
 cyclopentylpropionyl]amino]nicotinic acid methyl ester
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ΙΤ

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300355-36-6P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-[5-
     (carboxymethyl)pyridin-2-yl]propionamide 300355-44-6P,
    2-[[3-Cyclopentyl-2-(4-nitrophenyl)propionyl]amino]thiazole-4-carboxylic
    acid ethyl ester 300355-49-1P, 6-[[3-Cyclopentyl-2-[4-
     (methanesulfonyl)phenyl]propionyl]amino]nicotinic acid methyl ester
    300356-30-3P, 6-[[2-(3-Chlorophenyl)-3-
    cyclopentylpropionyl]amino]nicotinic acid methyl ester
    300356-87-0P, 2-[[2-(3-Chlorophenyl)-3-
    cyclopentylpropionyl]amino]thiazole-4-carboxylic acid ethyl ester
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (glucokinase activator; preparation of cycloalkylheteroaryl propionamides as
        glucokinase activators)
     300352-85-6P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(thiazol-2-
ΙT
     yl)-propionamide 300352-86-7P, [2-[[3-Cyclopentyl-2-(3,4-
    dichlorophenyl)propionyl]amino]thiazol-4-yl](oxo)acetic acid ethyl ester
     300352-87-8P, [2-[[3-Cyclopentyl-2-(3,4-
     dichlorophenyl)propionyl]amino]thiazol-5-yl](oxo)acetic acid ethyl ester
     300352-89-0P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-
     methylthiazol-2-yl)propionamide 300352-90-3P,
     3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(4-methylthiazol-2-yl)propionamide
     300352-93-6P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-
     nitrothiazol-2-yl)propionamide 300352-94-7P,
     2-[[3-Cyclopentyl-2-(3,4-dichlorophenyl)propionyl]amino]thiazole-4-
     carboxylic acid amide 300352-95-8P, 2-(4-Bromophenyl)-3-
     cyclopentyl-N-(thiazol-2-yl)propionamide 300352-97-0P,
     2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionyl]amino]thiazole-4-
     carboxylic acid methyl ester 300352-99-2P, [2-[[3-Cyclopentyl-2-
     [4-(methanesulfonyl)phenyl]propionyl]amino]thiazol-4-yl]acetic acid methyl
     ester 300353-01-9P, 2-(4-Aminophenyl)-3-cyclopentyl-N-(thiazol-2-
     yl)propionamide 300353-02-0P, 2-(3-Aminophenyl)-3-cyclopentyl-N-
     (thiazol-2-yl) propionamide 300353-03-1P, 2-(3-Chlorophenyl)-3-
     cyclopentyl-N-(thiazol-2-yl)propionamide 300353-04-2P,
     2-(4-Chlorophenyl)-3-cyclopentyl-N-(thiazol-2-yl)propionamide
     300353-05-3P, 3-Cyclopentyl-N-(thiazol-2-yl)-2-(4-
     trifluoromethylphenyl)propionamide 300353-07-5P,
     3-Cyclopentyl-N-(thiazol-2-yl)-2-[4-(trifluoromethylsulfanyl)phenyl]propio
     namide 300353-08-6P, 3-Cyclopentyl-N-(thiazol-2-yl)-2-[4-yl)
     (trifluoromethanesulfonyl)phenyl]propionamide 300353-09-7P,
     2-[[3-Cyclopentyl-2-[4-(trifluoromethanesulfonyl)phenyl]propionyl]amino]th
     iazole-4-carboxylic acid methyl ester 300353-10-0P,
     2-[[3-Cyclopentyl-2-[4-(trifluoromethanesulfonyl)phenyl]propionyl]amino]th
     iazole-4-carboxylic acid ethyl ester 300353-11-1P,
     [2-[[3-Cyclopentyl-2-[4-(trifluoromethanesulfonyl)phenyl]propionyl]amino]t
     hiazol-4-yl]acetic acid methyl ester 300353-12-2P,
     2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
     yl)propionamide 300353-15-5P, 3-Cyclopentyl-2-(3,4-
     dichlorophenyl)-N-(5-hydroxymethylthiazol-2-yl)propionamide
     300353-16-6P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-[4-(2-
     hydroxyethyl)thiazol-2-yl]propionamide 300353-17-7P,
     3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(4-hydroxymethylthiazol-2-
     yl)propionamide 300353-21-3P, [2-[[3-Cyclopentyl-2-(3,4-
     dichlorophenyl)propionyl]amino]thiazol-4-yl]acetic acid methyl ester
     300353-22-4P, 2-[[3-Cyclopentyl-2-(3,4-
     dichlorophenyl)propionyl]amino]thiazole-4-carboxylic acid methyl ester
     300353-23-5P, 2-[[3-Cyclopentyl-2-(3,4-
     dichlorophenyl)propionyl]amino]thiazole-5-carboxylic acid methyl ester
     300353-25-7P, [2-[[3-Cyclopentyl-2-(4-
     nitrophenyl)propionyl]amino]thiazol-4-yl]-(oxo)acetic acid ethyl ester
     300353-28-0P, [2-[[2-(4-Aminophenyl)-3-
     cyclopentylpropionyl]amino]thiazol-4-yl]acetic acid methyl ester
     300353-30-4P, 2-[[2-(4-Aminophenyl)-3-
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cyclopentylpropionyl]amino]thiazole-4-carboxylic acid methyl ester
300353-32-6P, [2-[[2-(3-Chlorophenyl)-3-
cyclopentylpropionyl]amino]thiazol-4-yl]acetic acid methyl ester
300353-33-7P, 2-[[2-(3-Chlorophenyl)-3-
cyclopentylpropionyl]amino]thiazole-4-carboxylic acid methyl ester
300353-36-0P, [2-[[2-(4-Chlorophenyl)-3-
cyclopentylpropionyl]amino]thiazol-4-yl]acetic acid methyl ester
300353-38-2P, 3-Cyclopentyl-N-(4-hydroxymethylthiazol-2-yl)-2-[4-hydroxymethylthiazol-2-yl)-2-[4-hydroxymethylthiazol-2-yl)-2-[4-hydroxymethylthiazol-2-yl)-2-[4-hydroxymethylthiazol-2-yl)-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-2-[4-hydroxymethylthiazol-2-yl]-
(methanesulfonyl)phenyl]propionamide 300353-39-3P,
3-Cyclopentyl-N-[4-(2-hydroxyethyl)thiazol-2-yl]-2-[4-
(methanesulfonyl)phenyl]propionamide 300353-40-6P,
(2R)-2-[[3-Cyclopenty1-2-(3,4-dichlorophenyl)propionyl]amino]thiazole-4-
carboxylic acid methyl ester 300353-42-8P, 3-Cyclopentyl-2-(3,4-
dichlorophenyl)-N-pyridin-2-ylpropionamide 300353-45-1P,
3-Cyclopentyl-2-[4-(methylsulfanyl)phenyl]-N-pyridin-2-ylpropionamide
300353-46-2P, 3-Cyclopentyl-N-pyridin-2-yl-2-[4-
(trifluoromethylsulfanyl)phenyl]propionamide 300353-47-3P,
3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]-N-pyridin-2-ylpropionamide
300353-48-4P, 3-Cyclopentyl-N-pyridin-2-yl-2-[4-
(trifluoromethanesulfonyl)phenyl]propionamide 300353-49-5P,
3-Cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]-N-pyridin-2-
ylpropionamide 300353-52-0P, 6-[[2-(4-Chlorophenyl)-3-
cyclopentylpropionyl]amino]nicotinic acid 300353-53-1P,
6-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionyl]amino]nicotinic
acid 300353-54-2P, 3-Cyclopentyl-2(3,4-dichlorophenyl)-N-(5-dichlorophenyl)
hydroxymethylpyridin-2-yl)propionamide 300353-55-3P,
2-(4-Chlorophenyl)-3-cyclopentyl-N-(5-hydroxymethylpyridin-2-
yl)propionamide 300353-56-4P, 3-Cyclopentyl-2-(3,4-
dichlorophenyl)-N-(5-hydroxypyridin-2-yl)propionamide 300353-57-5P
   3-Cyclopentyl-N-(5-hydroxymethylpyridin-2-yl)-2-[4-
(methanesulfonyl)phenyl]propionamide 300353-58-6P,
3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]-N-(5-methylpyridin-2-
yl)propionamide 300353-59-7P, N-(5-Chloropyridin-2-yl)-3-
cyclopentyl-2(R)-(3,4-dichlorophenyl)propionamide 300353-60-0P,
3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)-N-pyridin-2-ylpropionamide
300353-61-1P, 3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)-N-(thiazol-2-
yl)propionamide 300353-62-2P, (2R)-[2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazol-5-yl](oxo)acetic acid ethyl ester
300353-63-3P, (2R)-[2-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]thiazol-4-yl](oxo)acetic acid ethyl ester
300353-64-4P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(1H-imidazol-
2-yl)propionamide 300353-65-5P, 3-Cyclopentyl-2-(3,4-
dichlorophenyl)-N-(5-methylisoxazol-3-yl)propionamide 300353-66-6P
    3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(oxazol-2-yl)propionamide
300353-67-7P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-pyridazin-3-
ylpropionamide 300353-68-8P, 3-Cyclopentyl-2-(3,4-
dichlorophenyl)-N-pyrimidin-2-ylpropionamide 300353-69-9P,
 3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)-N-pyrimidin-4-ylpropionamide
 300353-70-2P, 3-Cyclopentyl-2-[4-(methanesulfinyl)phenyl]-N-
 (thiazol-2-yl)propionamide 300353-71-3P, [2-[[3-Cyclopentyl-2-[4-
 (trifluoromethanesulfonyl)phenyl]propionyl]amino]thiazol-4-yl]acetic acid
 ethyl ester 300353-72-4P, N-(5-Bromopyridin-2-yl)-3-cyclopentyl-
 2-[4-(trifluoromethanesulfonyl)phenyl]propionamide 300353-73-5P,
 2-(4-Chloro-3-nitrophenyl)-3-cyclopentyl-N-(thiazol-2-yl)propionamide
 300353-74-6P, 2-(4-Chloro-3-nitrophenyl)-3-cyclopentyl-N-pyridin-2-
 ylpropionamide 300353-75-7P, N-(5-Bromopyridin-2-yl)-3-
 cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]propionamide
 300353-76-8P, 3-Cyclopentyl-2-[3-hydroxyamino-4-
 (methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 300353-77-9P
 , 2-[3-Amino-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
 yl)propionamide 300353-78-0P, 3-Cyclopentyl-N-(thiazol-2-yl)-2-
 [3-(trifluoromethanesulfonyl)phenyl]propionamide 300353-79-1P,
 3-Cyclopentyl-2-(3-fluoro-4-trifluoromethylphenyl)-N-(thiazol-2-
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yl)propionamide 300353-80-4P, 3-Cyclopentyl-2-(3-fluoro-4-
trifluoromethylphenyl)-N-pyridin-2-ylpropionamide 300353-81-5P,
2-[3-Bromo-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
yl)propionamide 300353-82-6P, 2-[3-Bromo-4-
(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyridin-2-ylpropionamide
300353-83-7P, 2-[3-Bromo-4-(methanesulfonyl)phenyl]-N-(5-
bromopyridin-2-yl)-3-cyclopentylpropionamide 300353-84-8P,
2-[3-Cyano-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
yl)propionamide 300353-85-9P, 2-[3-Cyano-4-
(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyridin-2-ylpropionamide
300353-86-0P, 3-Cyclopentyl-2-[4-(ethanesulfonyl)phenyl]-N-
(thiazol-2-yl)propionamide 300353-87-1P, 3-Cyclopentyl-2-[4-
(ethanesulfonyl)phenyl]-N-pyridin-2-ylpropionamide 300353-88-2P,
2-[3,4-Bis(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
yl)propionamide 300353-89-3P, 2-[3,4-Bis(methanesulfonyl)phenyl]-
3-cyclopentyl-N-pyridin-2-ylpropionamide 300353-90-6P,
3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-[1,2,4]triazin-3-ylpropionamide
300353-91-7P, 3-Cyclopentyl-2-(4-sulfamoylphenyl)-N-(thiazol-2-
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dichlorophenyl)-N-[1,3,4]thiadiazol-2-ylpropionamide 300353-93-9P
  2-(4-\texttt{Cyanophenyl})-3-\texttt{cyclopentyl-N-(thiazol-2-yl)propionamide}
300353-94-0P, 3-Cyclopentyl-N-pyridin-2-yl-2-(4-
trifluoromethylphenyl)propionamide 300353-95-1P,
2-[4-(Butan-1-ylsulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
yl)propionamide 300353-96-2P, 3-Cyclopentyl-2-[4-(propan-1-
ylsulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 300353-97-3P,
3-Cyclopentyl-2-(4-fluoro-3-trifluoromethylphenyl)-N-(thiazol-2-
yl)propionamide 300353-98-4P, [2-[[3-Cyclopentyl-2-(4-fluoro-3-
trifluoromethylphenyl)propionyl]amino]thiazol-4-yl](oxo)acetic acid ethyl
ester 300353-99-5P, 3-Cyclopentyl-2-(4-fluoro-3-
trifluoromethylphenyl)-N-(5-methylpyridin-2-yl)propionamide
300354-00-1P, 3-Cyclopentyl-2-(4-fluoro-3-trifluoromethylphenyl)-N-
pyridin-2-ylpropionamide 300354-01-2P, 3-Cyclopentyl-N-(thiazol-
2-y1)-2-(3-trifluoromethylphenyl)propionamide 300354-02-3P,
3-Cyclopentyl-2-[4-(methanesulfonyl)-3-trifluoromethylphenyl]-N-(thiazol-2-
yl)propionamide 300354-03-4P, 3-Cyclopentyl-2-[4-
(\texttt{methanesulfonyl}) - 3 - \texttt{trifluoromethylphenyl}] - \texttt{N-pyridin-2-ylpropionamide}
300354-04-5P, 3-Cyclopentyl-2-[4-(methylsulfanyl)-3-
trifluoromethylphenyl]-N-(thiazol-2-yl)propionamide 300354-05-6P
, 2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyridin-2-
ylpropionamide 300354-06-7P, N-(5-Bromopyridin-2-yl)-2-[3-chloro-
4-(methanesulfonyl)phenyl]-3-cyclopentylpropionamide 300354-07-8P
, N-(5-Chloropyridin-2-yl)-2-[3-chloro-4-(methanesulfonyl)phenyl]-3-
cyclopentylpropionamide 300354-08-9P, 2-[3-Chloro-4-
(methanesulfonyl)phenyl]-3-cyclopentyl-N-(5-trifluoromethylpyridin-2-
yl)propionamide 300354-09-0P, [2-[[2-[3-Chloro-4-
(methanesulfonyl)phenyl]-3-cyclopentylpropionyl]amino]thiazol-4-
yl](oxo)acetic acid ethyl ester 300354-10-3P,
2(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(thiazol-2-
yl)propionamide 300354-11-4P, 2(R)-[3-Chloro-4-
(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyridin-2-ylpropionamide
300354-12-5P, N-(5-Bromopyridin-2-yl)-2(R)-[3-chloro-4-
(methanesulfonyl)phenyl]-3-cyclopentylpropionamide 300354-13-6P,
N-(5-Cyanopyridin-2-y1)-3-cyclopenty1-2-(3,4-dichlorophenyl)propionamide
300354-14-7P, 3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)-N-(5-
trifluoromethylpyridin-2-yl)propionamide 300354-15-8P,
6-[[3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)propionyl]amino]nicotinic acid
300354-16-9P, 6-[[3-Cyclopentyl-2-(3,4-
dichlorophenyl)propionyl]amino]-N-methylnicotinamide 300354-17-0P
  3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-pyrazin-2-ylpropionamide
300354-18-1P, N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2(R)-(3,4-
dichlorophenyl)propionamide 300354-19-2P, 3-Cyclopentyl-2(R)-
 (3,4-dichlorophenyl)-N-(5-hydroxymethylpyridin-2-yl)propionamide
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300354-20-5P, 3-Cycloheptyl-2-[4-(methanesulfonyl)phenyl]-N-
(thiazol-2-yl)propionamide 300354-21-6P, 3-Cyclohexyl-2-[4-
(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 300354-24-9P
   3-Cyclopentyl-2-(3-hydroxyphenyl)-N-(thiazol-2-yl)propionamide
300354-25-0P, 3-Cyclopentyl-N-(thiazol-2-yl)-2-(4-
trifluoromethoxyphenyl)propionamide 300354-27-2P,
3-Cyclopentyl-2-(3,4-dihydroxyphenyl)-N-(thiazol-2-yl)propionamide
300354-29-4P, 3-Cyclopentyl-2-(4-hydroxyphenyl)-N-(thiazol-2-
yl)propionamide 300354-30-7P, 4-[2-Cyclopentyl-1-(thiazol-2-
ylcarbamoyl)ethyl]benzoic acid methyl ester 300354-32-9P,
3-Cyclopentyl-2-(3-fluoro-4-hydroxyphenyl)-N-(thiazol-2-yl)propionamide
300354-33-0P, 6-[[2-(3-Chlorophenyl)-3-
cyclopentylpropionyl]amino]nicotinic acid 300354-35-2P,
2-(4-Aminophenyl)-3-cyclopentyl-N-pyridin-2-ylpropionamide
300354-36-3P, 6-[[2-(4-Aminophenyl)-3-
cyclopentylpropionyl]amino]nicotinic acid methyl ester
300354-37-4P, 3-Cyclohexyl-2-[4-(methanesulfonyl)-3-
trifluoromethylphenyl]-N-(thiazol-2-yl)propionamide 300355-32-2P
    2-(4-Chlorophenyl)-3-cyclopentyl-N-pyridin-2-ylpropionamide
300355-35-5P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-
nitropyridin-2-yl)propionamide 300355-37-7P,
3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-pyrimidin-4-ylpropionamide
300355-38-8P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-
methylpyridin-2-yl)propionamide 300355-39-9P,
3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(4-methylpyridin-2-yl)propionamide
300355-40-2P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(6-
methylpyridin-2-yl)propionamide 300355-41-3P,
3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-chloropyridin-2-yl)propionamide
300355-42-4P, 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(5-
bromopyridin-2-yl)propionamide 300355-43-5P,
 3-Cyclopentyl-2-(4-nitrophenyl)-N-pyrimidin-4-ylpropionamide
 300355-45-7P, N-(5-Chloropyridin-2-yl)-3-cyclopentyl-2-[4-
 (trifluoromethanesulfonyl)phenyl]propionamide 300355-46-8P,
 3- Cyclopentyl-N-(5-methylpyridin-2-yl)-2-[4-(trifluoromethanesulfonyl)phender and the summary of the control of the control
 yl]propionamide 300355-47-9P, 6-[[3-Cyclopentyl-2-[4-
 (trifluoromethanesulfonyl)phenyl]propionyl]amino]nicotinic acid methyl
 ester 300355-90-2P, 2-(4-Cyanophenyl)-3-cyclopentyl-N-pyridin-2-
 ylpropionamide 300355-91-3P, 6-[[2-(4-Cyanophenyl)-3-
 cyclopentylpropionyl]amino]nicotinic acid methyl ester
 300355-92-4P, 6-[[3-Cyclopentyl-2-(4-trifluoromethylphenyl)propion
 yl]amino]nicotinic acid methyl ester 300356-01-8P,
 [2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)-3-trifluoromethylphenyl]propiony
 llamino]thiazol-4-yllacetic acid methyl ester 300356-02-9P,
 2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)-3-trifluoromethylphenyl]propionyl
 ]amino]thiazole-4-carboxylic acid methyl ester 300356-70-1P,
 2-(3-Chlorophenyl)-3-cyclopentyl-N-pyridin-2-ylpropionamide
 588929-69-5P, 2-(4-Chlorophenyl)-3-cyclopentyl-N-(5-
 hydroxymethylthiazol-2-yl)propionamide 588939-23-5P,
 3-Cyclopentyl-2-[4-(methoxymethanesulfonyl)phenyl]-N-(thiazol-2-
 yl)propionamide 588939-54-2P, 3-Cyclopentyl-2(R)-[4-
  (methylsulfanyl)phenyl]-N-pyrazin-2-ylpropionamide 588939-59-7P,
 3- \texttt{Cyclopentyl-2(R)-(4-methylsulfonylphenyl)-N-pyrazin-2-ylpropionamide}\\
 588939-65-5P, 3-Cyclopentyl-2(R)-[4-(methanesulfonyl)phenyl]-N-(4-
  methylthiazo1-2-yl)propionamide 588939-79-1P,
 3-\text{Cyclopentyl-2}(R)-[4-(\text{methanesulfonyl})\text{ phenyl}]-N-(5-\text{methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazol-2-methylthiazo
  yl)propionamide 588939-85-9P, N-(5-Chlorothiazol-2-yl)-3-
 cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionamide 588939-90-6P
  , N-(5-Chlorothiazol-2-yl)-3-cyclopentyl-2(R)-[4-
  (methanesulfonyl)phenyl]propionamide 588939-98-4P,
  N-(5-Bromothiazol-2-y1)-3-cyclopentyl-2-[4-(methanesulfonyl)phenyl] propion \\
  amide 588940-11-8P, N-(5-Bromothiazol-2-yl)-3-cyclopentyl-2(R)-
  [4-(methanesulfonyl)phenyl]propionamide 588940-17-4P,
  2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionyl]amino]thiazole-5-
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carboxylic acid amide 588940-38-9P, 3-Cyclopentyl-2-[3-fluoro-4-
  (methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide 588940-56-1P
    3-Cyclopentyl-2-[3-fluoro-4-(methanesulfonyl)phenyl]-N-pyridin-2-
  ylpropionamide 588940-63-0P, N-(5-Bromothiazol-2-yl)-2(R)-[3-
  chloro-4-(methanesulfonyl)phenyl]-3-cyclopentylpropionamide
  588940-83-4P, 2(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-3-
  cyclopentyl-N-(5-methylthiazol-2-yl)propionamide 588940-88-9P,
  2(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(4-methylthiazol-
  2-yl)propionamide 588940-95-8P, 2(R)-[3-Chloro-4-
  (methanesulfonyl)phenyl]-3-cyclopentyl-N-(5-methylpyridin-2-
  yl)propionamide 588941-00-8P, 2-[3-Chloro-4-
  (methanesulfonyl)phenyl]-3-cyclopentyl-N-pyrimidin-4-ylpropionamide
  588941-05-3P, 2(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-3-
  cyclopentyl-N-pyrimidin-4-ylpropionamide 588941-11-1P,
  2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-(2-methylpyrimidin-
  4-yl)propionamide 588941-17-7P, 2(R)-[3-Chloro-4-
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  yl)propionamide 588941-33-7P, 2(R)-[3-Chloro-4-
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  (methanesulfonyl)phenyl]-3-cyclopentyl-N-pyrazin-2-ylpropionamide
  588941-45-1P, 2(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-3-
  cyclopentyl-N-pyrazin-2-ylpropionamide 588941-51-9P,
  2-[3-Bromo-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyrimidin-4-
  ylpropionamide 588941-57-5P, 2-[3-Bromo-4-
  (methanesulfonyl)phenyl]-3-cyclopentyl-N-(2-methylpyrimidin-4-
  yl)propionamide 588941-62-2P, 2-[3-Bromo-4-
  (methanesulfonyl)phenyl]-3-cyclopentyl-N-pyrazin-2-ylpropionamide
  588941-68-8P, 2-[3-Bromo-4-(methanesulfonyl)phenyl]-3-cyclopentyl-
  N-(1H-imidazol-2-yl) propionamide 588941-73-5P,
  2-[3-Cyano-4-(methanesulfonyl)phenyl]-3-cyclopentyl-N-pyrimidin-4-
  ylpropionamide 588941-78-0P, 2-[3-Cyano-4-
  (methanesulfonyl)phenyl]-3-cyclopentyl-N-(2-methylpyrimidin-4-
  vl)propionamide 588941-84-8P, 2-[3-Cyano-4-
  ({\tt methane sulfonyl})\,{\tt phenyl}]\,{\tt -3-cyclopentyl-N-pyrazin-2-ylpropionamide}
  588941-90-6P, 3-Cyclopentyl-2-[4-(methylsulfanyl)-3-
  trifluoromethylphenyl]-N-(5-nitropyridin-2-yl)propionamide
  588941-95-1P, N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2-(4-
  methylsulfanyl-3-trifluoromethylphenyl)propionamide 588941-99-5P
    N-(5-Cyanopyridin-2-yl)-3-cyclopentyl-2-(4-methylsulfanyl-3-yl)
  trifluoromethylphenyl)propionamide 588942-03-4P,
  dihydropyrimidin-4-yl)propionamide 588942-07-8P,
  4-ylpropionamide 588942-11-4P, 3-Cyclopentyl-2-[4-
   (methanesulfonyl)-3-trifluoromethylphenyl]-N-pyrazin-2-ylpropionamide
  588942-15-8P, 3-Cyclopentyl-2-[4-(methanesulfonyl)-3-
  trifluoromethylphenyl]-N-(2-methylpyrimidin-4-yl)propionamide
  588942-19-2P, N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2-[4-
   (methanesulfonyl)-3-trifluoromethylphenyl]propionamide
  588942-28-3P, 3-Cyclopentyl-2(R)-[4-(methanesulfonyl)-3-
  trifluoromethylphenyl]-N-(thiazol-2-yl)propionamide 588942-33-0P
4-ylpropionamide 588942-55-6P, 3-Cyclopentyl-2(R)-[4-
   (methanesulfonyl)-3-trifluoromethylphenyl]-N-pyrazin-2-ylpropionamide
   588942-60-3P, 3-Cyclopentyl-2(R)-[4-(methanesulfonyl)-3-
   trifluoromethylphenyl]-N-(2-methylpyrimidin-4-yl)propionamide
   588942-64-7P, 3-Cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]-
  N-pyrimidin-4-ylpropionamide 588942-68-1P, 3-Cyclopentyl-2-[4-
   (methanesulfonyl)-3-nitrophenyl]-N-(2-methylpyrimidin-4-yl)propionamide
   588942-71-6P, 3-Cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]-
   N-(2-oxo-1, 2-dihydropyrimidin-4-yl) propionamide 588942-76-1P,
   3-Cyclopentyl-2-[4-(methanesulfonyl)-3-nitrophenyl]-N-pyrazin-2-
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ylpropionamide 588942-81-8P, 3-Cyclopentyl-N-(1H-imidazol-2-yl)-
    2-[4-(methanesulfonyl)-3-nitrophenyl]propionamide 588942-86-3P,
    3-Cyclopentyl-2(R)-(3,4-dichlorophenyl)-N-pyrazin-2-ylpropionamide
    588942-91-0P, N-(5-Bromopyridin-2-yl)-2-(4-chloro-3-nitrophenyl)-3-
    cyclopentylpropionamide 588942-95-4P, 3-Cyclopentyl-N-pyrimidin-
    4-yl-2-(3-trifluoromethylphenyl)propionamide 588943-01-5P,
    3-Cyclopentyl-N-(2-methylpyrimidin-4-yl)-2-(3-
    trifluoromethylphenyl)propionamide 588943-08-2P,
    3-Cyclopentyl-N-pyrazin-2-yl-2-(3-trifluoromethylphenyl)propionamide
    588943-12-8P, [2-[[3-Cyclopentyl-2-(4-fluoro-3-
    trifluoromethylphenyl)propionyl]amino]thiazol-4-yl]acetic acid ethyl ester
    588943-17-3P, 3-Cyclopentyl-2-(4-fluoro-3-trifluoromethylphenyl)-N-
     (5-nitropyridin-2-yl)propionamide 588943-23-1P,
    N-(5-Cyanopyridin-2-yl)-3-cyclopentyl-2-(4-fluoro-3-
    trifluoromethylphenyl)propionamide 588943-31-1P,
     6-[[3-Cyclopentyl-2-(4-fluoro-3-trifluoromethylphenyl)propionyl]amino]nico
    tinic acid methyl ester 588943-37-7P, N-(5-Bromopyridin-2-yl)-3-
     cyclopentyl-2-(4-fluoro-3-trifluoromethylphenyl)propionamide
     588943-44-6P, 3-Cyclopentyl-N-(1H-imidazol-2-yl)-2-[4-
     (methanesulfonyl)-3-trifluoromethylphenyl]propionamide
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (glucokinase activator; preparation of cycloalkylheteroaryl propionamides as
        glucokinase activators)
     300354-22-7P, 3-Cyclopentyl-2-(3-nitrophenyl)-N-(thiazol-2-
TI
     yl)propionamide
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (intermediate, glucokinase activator; preparation of cycloalkylheteroaryl
        propionamides as glucokinase activators)
     300355-17-3P, 2-[3-Chloro-4-(methylsulfanyl)phenyl]-3-cyclopentyl-
ΙT
     N-(thiazol-2-yl)propionamide 300355-48-0P, N-(5-Benzyloxypyridin-
     2-yl)-3-cyclopentyl-2-(3,4-dichlorophenyl)propionamide
     588940-26-5P, 2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propi
     onyl]amino]thiazole-5-carboxylic acid ethyl ester 588940-32-3P,
     2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionyl]amino]thiazole-5-
     carboxylic acid 588941-27-9P, 2(R)-[3-Chloro-4-
     (methylsulfanyl)phenyl]-3-cyclopentyl-N-(2-methylpyrimidin-4-
     vl)propionamide
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (intermediate; preparation of cycloalkylheteroaryl propionamides as
        glucokinase activators)
     300352-91-4, 2-[[3-Cyclopentyl-2-(3,4-
IΤ
     dichlorophenyl)propionyl]amino]thiazole-4-carboxylic acid ethyl ester
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of cycloalkylheteroaryl propionamides as glucokinase
        activators)
                                THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
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                         Allosteric activators of glucokinase: Potential role
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                          Grimsby, Joseph; Sarabu, Ramakanth; Corbett, Wendy L.;
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                          W.; Guertin, Kevin R.; Hilliard, Darryl W.; Kester,
                          Robert F.; Mahaney, Paige E.; Marcus, Linda; Qi, Lida; Spence, Cheryl L.; Tengi, John; Magnuson, Mark A.;
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Chu, Chang An; Dvorozniak, Mark T.; Matschinsky, Franz

M.; Grippo, Joseph F.

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Glucokinase (GK) plays a key role in whole-body glucose homeostasis by catalyzing the phosphorylation of glucose in cells that express this enzyme, such as pancreatic 3 cells and hepatocytes. We describe a class of antidiabetic agents that act as nonessential, mixed-type GK activators (GKAs) that increase the glucose affinity and maximum velocity (Vmax) of GK. GKAs augment both hepatic glucose metabolism and glucose-induced insulin secretion from isolated rodent pancreatic islets, consistent with the expression and function of GK in both cell types. In several rodent models of type 2 diabetes mellitus, GKAs lowered blood glucose levels, improved the results of glucose tolerance tests, and increased hepatic glucose uptake. These findings may lead to the development of new drug therapies for diabetes.

300352-96-9, Ro 28-0450 300353-13-3, Ro 28-1675

**599164-57-5**, Ro 28-1674

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(allosteric activators of glucokinase and potential role in diabetes

therapy)

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 21 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:516858 HCAPLUS 139:65384

DOCUMENT NUMBER: TITLE:

Methods for purification and crystal structure of

human glucokinase and their use in treatment of type

II diabetes

Corbett, Wendy Lea; Crowther, Robert Lewis; Dunten, INVENTOR(S):

Pete William; Kammlott, R. Ursula; Lukacs, Christine

Maria

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche AG, Switz.

SOURCE:

Fr. Demande, 90 pp. CODEN: FRXXBL

Patent

DOCUMENT TYPE:

French

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO.         | KIND | DATE     | APPLICATION NO.   | DATE     |
|--------------------|------|----------|-------------------|----------|
|                    |      |          |                   |          |
| FR 2834295         | A1   | 20030704 | FR 2002-16171     | 20021219 |
| US 2003219887      | A1   | 20031127 | 00 2002 01000     | 20021212 |
| GB 2385328         | A1   | 20030820 | GB 2002-29456     | 20021218 |
| DE 10259786        | A1   | 20030717 | DH 2002 10203.00  | 20021219 |
| JP 2003235551      | A2   | 20030826 | JP 2002-367592    | 20021219 |
| LORITY APPLN INFO. | :    |          | US 2001-341988P P | 20011219 |

PRIORITY APPLN. INFO.: This invention relates to crystal structure of human glucokinase and methods for culturing these proteins. Methods of using glucokinase for treatment of hyperglycemia in type II diabetes are provided.

300354-06-7 300354-08-9 545357-71-9 ΙT

545357-72-0

RL: BSU (Biological study, unclassified); BIOL (Biological study) (cocrystn. of glucokinase with; methods for purification and crystal

# Lambkin 10\_616359

structure of human glucokinase and their use in treatment of type II diabetes)

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L15 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
                               2002:142705 HCAPLUS
ACCESSION NUMBER:
                               136:183830
DOCUMENT NUMBER:
                               Preparation of tetrazolylphenylacetamide glucokinase
TITLE:
                               activators for treatment or prophylaxis of type II
                               diabetes
                               Sidduri, Achyutharao
INVENTOR(S):
                               F. Hoffmann-La Roche A.-G., Switz.
PATENT ASSIGNEE(S):
                               PCT Int. Appl., 115 pp.
SOURCE:
                               CODEN: PIXXD2
                               Patent
DOCUMENT TYPE:
                               English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                                                     APPLICATION NO. DATE
                        KIND DATE
      PATENT NO.
      WO 2002014312 A1 20020221 WO 2001-EP9207 20010809
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                     US 2001-924247
                                                                           20010808
      US 2002035266 A1 20020321
                          B2
                                   20020409
      US 6369232
                         A5
                                   20020225
                                                     AU 2001-83998
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      AU 2001083998
                                                  AU 2001 352
EP 2001-962926
                                                                         20010809
                                 20030521
                           A1
      EP 1311504
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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      US 6388<u>08</u>8
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                                                                           20020116
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PRIORITY APPLN. INFO.:
                                                  US 2000-225494P P 20000815
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                                                                       W 20010809
                                                  WO 2001-EP9207
                                                  US 2001-975713
                                                                      A3 20011011
                               MARPAT 136:183830
OTHER SOURCE(S):
      Tetrazolylphenylacetamides, 4-R1-3-R2C6H3ZC(O)NHR4 (I; e.g.
      N-(5-bromopyridin-2-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-
      yl)phenyl]propionamide (1); Z is (E)-R3(CH2)nCH:C< or R3(CH2)nCH2C*H<; the asterisk denotes an asym. C; 1 of R1 or R2 is 5-R5-1H-tetrazol-1-yl and
      the other is H, halogen, lower alkyl sulfonyl, perfluoro lower alkyl,
      cyano, or nitro; R3 is cycloalkyl; R4 is -C(O)-NHR6 or a five- or
      six-membered heteroarom. ring connected by a ring C atom to the amide
      group; R5 is lower alkyl, perfluoro lower alkyl; R6 = H, lower alkyl; n =
      0, 1), are active as glucokinase activators, and are able to increase
      insulin secretion, which makes them useful for treating type II diabetes.
      In the in vitro glucokinase assay, all I described in the synthesis
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examples had an SC1.5  $\leq$  30  $\mu$ M. Nine I (e.g. 1) have excellent glucokinase activating activity in vivo when administered orally in accordance with the procedure described. 22 Example prepns. are given. For example, a solution of PPh3 (0.9 mmol) in CH2Cl2 (6 mL) was cooled to

 $0^{\circ}$  and then treated with N-bromosuccinimide (0.9 mmol). The

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reaction mixture was stirred at 0° for 30 min and then treated with
     2-[3-chloro-4-(5-methyltetrazol-1-yl)phenyl]-3-cyclopentylpropionic acid
     (2; 0.45 mmol). The clear solution was stirred for 15 min at 0^{\circ} and
     then allowed to warm to 25° where it was stirred for 2 h. The
     reaction mixture was then treated with 2-amino-5-bromopyridine (1.35 mmol),
     and the resulting suspension was stirred for 2 d at 25°. After
     workup, 42% of 1 was obtained as an amorphous white solid. To prepare
     intermediate 2, activated Zn dust suspension (10 mmol) in THF was treated
     with trimethylsilyl chloride (1 mmol), and the suspension was stirred for
     15 min at 25°. The reaction mixture was then treated dropwise with a
     solution of (E)-3-cyclopentyl-2-iodoacrylic acid Me ester (preparation given; 4.5
     mmol) in dry THF (2 mL) over 3 min. The reaction mixture was then stirred
     at 40-45° for 1 h and then stirred overnight at 25°. The
     reaction mixture was then diluted with dry THF (3 mL), and the stirring was
     stopped to allow the excess Zn dust to settle down (.apprx.2 h). In a
     sep. reaction flask, bis(dibenzylideneacetone)palladium(0) (0.1 mmol) and
     PPh3 (0.4 mmol) in dry THF (4 mL) was stirred at 25° under Ar for
     10 min and then treated with 1-(2-chloro-4-iodophenyl)-5-methyl-1H-
     tetrazole (preparation given; 2.73 mmol) and the freshly prepared Zn compound in
     THF. The resulting brick red solution was stirred at 25^{\circ} over the
     weekend and then heated at 40-45° for 4 h. Workup gave 91%
     (E)-2-[3-chloro-4-(5-methyltetrazol-1-yl)phenyl]-3-cyclopentylacrylic acid
    Me ester (3). A solution of Ni(II) chloride hexahydrate (0.8 mmol) and 3
     (2.0 mmol) in MeOH (15 mL) was cooled to 0^{\circ} and then treated with
     NaBH4 (12 mmol) in five portions. After the addition, the black reaction
    mixture was stirred for 15~\mathrm{min} at 0^{\circ} and then allowed to warm to
    25° where it was stirred for 2 d. Workup gave 99% racemic
     2-[3-chloro-4-(5-methyltetrazol-1-yl)phenyl]-3-cyclopentylpropionic acid
    Me ester (4). A solution of 4 (2.0 mmol) in EtOH (20 mL) was treated with a
     1 N aqueous NaOH solution (4 mL). The solution was heated at 45-50^{\circ} for 3 h,
     at which time, thin layer chromatog. anal. of the reaction mixture indicated
     the absence of starting material. Workup gave 90% 2.
     400610-22-2P, 2-[4-(5-Methyl-1-tetrazolyl)-3-fluorophenyl]-3-
     cyclopentyl-N-thiazol-2-ylpropionamide 400610-28-8P,
     N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2-[3-fluoro-4-(5-methyltetrazol-1-
     yl)phenyl]propionamide 400610-29-9P, 2-[3-Chloro-4-(5-
    methyltetrazol-1-yl)phenyl]-3-cyclopentyl-N-thiazol-2-ylpropionamide
     400610-34-6P, 2-[3-Chloro-4-(5-methyltetrazol-1-yl)phenyl]-3-
     cyclohexyl-N-thiazol-2-ylpropionamide 400610-38-0P,
     N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-
     yl)phenyl]propionamide 400610-39-1P, 2-[3-Chloro-4-(5-
     trifluoromethyltetrazol-1-yl)phenyl]-3-cyclohexyl-N-thiazol-2-
     ylpropionamide 400610-44-8P, 3-Cyclopentyl-2-[4-(5-
    methyltetrazol-1-yl)-3-trifluoromethylphenyl]-N-thiazol-2-ylpropionamide
     400610-49-3P, N-(5-Bromopyridin-2-y1)-3-cyclopenty1-2-[4-<math>(5-400610-49-3)]
    methyltetrazol-1-yl)-3-trifluoromethylphenyl]propionamide
     400610-50-6P, 3-Cyclopentyl-2-[4-methanesulfonyl-3-(5-
    methyltetrazol-1-yl)phenyl]-N-thiazol-2-ylpropionamide
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (preparation of tetrazolylphenylacetamide glucokinase activators for
        treatment or prophylaxis of type II diabetes)
REFERENCE COUNT:
                         3
                               THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L15 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
                         2001:833296 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         135:357916
                        Para-amino substituted phenylamide glucokinase
TITLE:
                        activators
                         Bizzarro, Fred Thomas; Haynes, Nancy-Ellen; Sarabu,
INVENTOR(S):
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Ramakanth

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PATENT ASSIGNEE(S):
                         F. Hoffmann-La Roche A.-g., Switz.
                         PCT Int. Appl., 49 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                          APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
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                                          WO 2001085707
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                           20011115
                                         WO 2001-EP4859 20010430
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            IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
            MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
            SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
            KZ, MD, RU, TJ, TM
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    JP 2003532719
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                                          JP 2001-582308
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                                                           20020926
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PRIORITY APPLN. INFO.:
                                       US 2000-202389P P 20000508
                                       WO 2001-EP4859
                                                        W 20010430
                                       US 2001-846820
                                                       A3 20010501
OTHER SOURCE(S):
                       MARPAT 135:357916
    Para-alkyl, aryl, cycloheteroalkyl or heteroaryl [carbonyl or sulfonyl]
    amino substituted Ph amides active as glucokinase activators to increase
    insulin secretion which makes them useful for treating type II diabetes
    were studied. Seventeen title compds. were prepared via standard methods and
    their glucokinase activation activities were measured. All compds. had an
    SC1.5 equal to or less than 30 \mu M. Among the compds. prepared were 95%
    N-{4-[2-cyclopentyl-1-(2-thiazolylcarbamoyl)ethyl]phenyl}benzamide and 72%
    Me 6-(3-cyclopentyl-2-{4-[(3-pyridinecarbonyl)amino]phenyl}propionylamino)
    nicotinate.
    372938-01-7P 372938-02-8P 372938-03-9P
TΤ
    372938-04-0P 372938-05-1P 372938-06-2P
    372938-07-3P 372938-08-4P 372938-09-5P
    372938-10-8P 372938-11-9P 372938-12-0P
    372938-13-1P 372938-14-2P 372938-15-3P
    372938-16-4P 372938-17-5P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); SPN (Synthetic preparation); BIOL (Biological
    study); PREP (Preparation)
        (preparation and use of antidiabetic p-amino substituted phenylamide
       glucokinase activators)
ΤТ
    300353-01-9P 300353-24-6P 300353-44-0P
    300354-34-1P 300354-35-2P 300354-36-3P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and use of antidiabetic p-amino substituted phenylamide
       glucokinase activators)
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IT

372938-22-2P

### Lambkin 10 616359

L15 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

### RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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2001:833295 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         135:357773
TITLE:
                         Preparation of substituted phenylacetamides and their
                         use as glucokinase activators
                         Corbett, Wendy Lea; Haynes, Nancy-Ellen; Sarabu,
INVENTOR(S):
                         Ramakanth
PATENT ASSIGNEE(S):
                         F. Hoffmann-La Roche A.-G., Switz.
                         PCT Int. Appl., 119 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
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     WO 2001085706
                     A1
                            20011115
                                          WO 2001-EP4777 20010427
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     US 6384220
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                            20020507
PRIORITY APPLN. INFO.:
                                        US 2000-202387P P 20000508
                                        WO 2001-EP4777 W 20010427
OTHER SOURCE(S):
                        MARPAT 135:357773
    The title compds. 4-R[(CH2)yX]zC6H4CH(CH2R1)CONHR2[X = 0, SO2; R is a
     ring; R1 is cycloalkyl; y and z are 0 or 1; R2 is -CONHR3 or a heteroarom.
     ring having a ring nitrogen atom adjacent to the connecting ring carbon
     atom], active as glucokinase activators to increase insulin secretion,
    were prepared E.g., 2-biphenyl-4-yl-3-cyclopentyl-N-thiazol-2-
    ylpropionamide was prepared by reaction of 4-biphenylacetic acid with
     iodomethylcyclopentane, followed by treatment with 2-aminothiazole.
IT
    372509-12-1P 372509-13-2P 372509-16-5P
    372509-22-3P 372509-23-4P 372509-45-0P
    372509-49-4P 372509-55-2P 372509-57-4P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (preparation of substituted phenylacetamides and their use as glucokinase
       activators)
ΙT
    372509-01-8P 372509-02-9P 372509-03-0P
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    372509-07-4P 372509-08-5P 372509-09-6P
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### Lambkin 10 616359

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     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of substituted phenylacetamides and their use as glucokinase
        activators)
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of substituted phenylacetamides and their use as glucokinase
        activators)
REFERENCE COUNT:
                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L15 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         2001:816652 HCAPLUS
DOCUMENT NUMBER:
                         135:357915
TITLE:
                        Preparation of alkynylphenyl N-thiazolepropionamides
                        as glucokinase activators for treatment of type II
                        diabetes
INVENTOR(S):
                        Mahaney, Paige Erin
PATENT ASSIGNEE(S):
                         F. Hoffmann-La Roche A.-G., Switz.
SOURCE:
                         PCT Int. Appl., 52 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
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                                          APPLICATION NO. DATE
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                    A2
    WO 2001083465
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WO 2001-EP4654 W 20010425 OTHER SOURCE(S): MARPAT 135:357915

PRIORITY APPLN. INFO.:

IT

US 2000-201546P P 20000503

$$R \quad C \equiv C \qquad I \qquad \qquad R^{5}$$

$$0 \qquad N \qquad \qquad 0 \qquad II$$

AΒ P-alkynylphenyl heteroarom. amides I (R = H, (OH)lower alkyl, alkoxy, R1R2N(CH2)n-, unsubstituted or OH-substituted cycloalkyl or S-, O-, or N-heterocycle; R3 = C3-7 cycloalkyl; R4 = (un)substituted S-, O-, or N-heteroarom. ring connected by the ring carbon to NH; R1 and R2 independently are H or lower alkyl or together with the N atom to which they are attached form a 5- or 6-membered heteroarom. ring with 1-3 heteroatoms of S, O, or N) and their pharmaceutically acceptable salts were prepared for use as glucokinase activators to increase insulin secretion and are therefore useful for treating type II diabetes. the glucokinase activator II (R5 = NH(thiazol-2-yl)) was prepared from (4-iodophenyl) acetic acid and iodomethylcyclopentane, then coupled with 4-prop-2-ynylmorpholine giving the intermediate II (R5 = OH) which reacted further with 2-aminothiazole to yield activator II in 71%. In vitro glucokinase activity was assayed and all compds. of formula I had an SC1.5 less than or equal to 30  $\mu$ M.

372080-87-0P 372080-90-5P 372080-93-8P 372080-94-9P 372080-97-2P 372081-00-0P 372081-03-3P 372081-06-6P 372081-09-9P 372081-12-4P 372081-15-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of N-thiazole-2-ylpropionamides as antidiabetic agents)

L15 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:137023 HCAPLUS

DOCUMENT NUMBER:

134:178552

TITLE:

3(5)-Acylaminopyrazole derivatives, process for their

preparation and their use as antitumor agents

INVENTOR(S):

Pevarello, Paolo; Orsini, Paolo; Traquandi, Gabriella;

Varasi, Mario; Fritzen, Edward L.; Warpehoski, Martha

A.; Pierce, Betsy S.; Brasca, Maria Grabriella

PATENT ASSIGNEE(S): Pharm

Pharmacia & Upjohn S.p.A., Italy; Pharmacia & Upjohn

Company

SOURCE:

PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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WO 2000-US6699
                                                             20000505
                             20010222
     WO 2001012189
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             DE, DK, DM, DZ, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
             MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
             TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                           EP 2000-931906
                                                             20000505
     EP 1202733
                       Α1
                            20020508
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
                            20020611
                                            BR 2000-13143
                                                             20000505
     BR 2000013143
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                            20040227
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    US 6218418
                                            US 2000-667603
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    NO 2002000684
                       Α
                            20020403
                                            NO 2002-684
                                                             20020211
                                            HR 2002-128
     HR 2002000128
                       Α1
                            20030430
                                                             20020212
                            20030311
                                            ZA 2002-1511
     ZA 2002001511
                       Α
                                                             20020222
                                            BG 2002-106480
     BG 106480
                       Α
                            20020930
                                                             20020305
PRIORITY APPLN. INFO.:
                                         US 1999-372831
                                                         A 19990812
                                         US 2000-560400
                                                          A1 20000428
                                         WO 2000-US6699
                                                          W 20000505
                         MARPAT 134:178552
OTHER SOURCE(S):
GΙ
```

AB Compds. which are 3-acylaminopyrazole derivs. (I; e.g. N-(5-cyclopropyl-1H-pyrazol-3-yl)-2,2-diphenylacetamide) wherein R is C3-C6 cycloalkyl group optionally substituted by a straight or branched C1-C6 alkyl or arylalkyl group; R1 is a straight or branched C1-C6 alkyl, C2-C4 alkenyl, cycloalkyl, cycloalkenyl, heterocyclyl, aryl, arylalkyl, arylcarbonyl, aryloxyalkyl or arylalkenyl group, each of which may be optionally further substituted as indicated in the description; or a pharmaceutically acceptable salt thereof, processes for their preparation and their therapeutic uses. The compds. are useful for the treatment of cancer, cell proliferative disorders, Alzheimer's disease, viral infections, auto-immune diseases or neurodegenerative diseases, but no quant. test results are presented. The cancer is selected from carcinoma, squamous cell carcinoma, hematopoietic tumors of myeloid or lymphoid lineage, tumors of mesenchymal origin, tumors of the central and peripheral nervous system, melanoma, seminoma, teratocarcinoma, osteosarcoma, xeroderma pigmentosum, keratoacanthoma, thyroid follicular cancer and Kaposi's sarcoma. The cell proliferative disorder is selected from benign prostate hyperplasia, familial adenomatosis polyposis, neuro-fibromatosis, psoriasis, vascular smooth cell proliferation associated with atherosclerosis, pulmonary fibrosis, arthritis glomerulonephritis and post-surgical stenosis and restenosis. The method of treatment provides tumor angiogenesis and metastasis inhibition, cell cycle inhibition or cdk/cyclin dependent inhibition, and treatment or prevention of radiotherapy-induced or chemotherapy-induced alopecia. A process for preparing the 3-aminopyrazole derivative or the pharmaceutically acceptable salt thereof, comprising: (a) reacting RCO2R2 (R2 = alkyl), with MeCN in the presence of a basic agent, to obtain RC(O)CH2CN; (b) reacting RC(O)CH2CN

### Lambkin 10\_616359

with hydrazine hydrate to obtain an 3-amino-5-R-1H-pyrazole; (c) oxidizing the 3-amino-5-R-1H-pyrazole to obtain the nitro analog; (d) reacting the nitro compound with tert-butoxycarbonyl anhydride (Boc2O) to obtain the N-Boc derivative; (e) reducing this BOC derivative to obtain the amino analog; (f) reacting this amino compound with R1C(O)X (X = OH or a suitable leaving group) to obtain the N1-Boc-protected I; and (g) hydrolyzing this intermediate in an acidic medium to obtain I. Other methods of preparation are also claimed.

326825-70-1P, N-(5-Cyclopropyl-1H-pyrazol-3-yl)-2-[4-(1-oxo-1,3-dihydro-2H-isoindol-2-yl)phenyl]hexanamide 326825-77-8P,
N-(5-Cyclopropyl-1H-pyrazol-3-yl)-2-[4-(1-oxo-1,3-dihydro-2H-isoindol-2-yl)phenyl]pentanamide
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)

(acylaminopyrazole derivs., process for preparation and use as antitumor

agents)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:707150 HCAPLUS

DOCUMENT NUMBER:

133:281775

TITLE:

Preparation of arylcycloalkylpropionamides as

glucokinase activators.

INVENTOR(S):

Bizzarro, Fred Thomas; Corbett, Wendy Lea; Focella, Antonino; Grippo, Joseph Francis; Haynes, Nancy-ellen;

Holland, George William; Kester, Robert Francis;

Mahaney, Paige E.; Sarabu, Ramakanth F. Hoffmann-La Roche A.-G., Switz.

PATENT ASSIGNEE(S):

PCT Int. Appl., 353 pp.

SOURCE: PCT Int. Appl CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA                               | TENT   | NO.   |                                 | KI                             | ND                              | DATE                                 |  | APPLICATION NO.   |                            |                                      |                                      |                                   |                   | DATE   |                                      |                   |                   |
|----------------------------------|--|---|---------------------------------|--------------------------------|---------------------------------|--------------------------------------|--|-------------------|----------------------------|--------------------------------------|--------------------------------------|-----------------------------------|-------------------|--|--------------------------------------|-------------------|-------------------|
| WO 2000058293<br>WO 2000058293   |  |   |                                 |                                |                                 |                                      |  | W                 | O 20                       | 00-E                                 | P245                                 | 0                                 | 2000              | 0320   |                                      |                   |                   |
|                                  |  | AE,<br>DE,<br>JP,<br>MK,<br>TJ,                   | AL,<br>DK,<br>KE,<br>MN,<br>TM, | AM,<br>EE,<br>KG,<br>MW,       | AT,<br>ES,<br>KP,<br>MX,<br>TT, | AU,<br>FI,<br>KR,<br>NO,             | AŻ,<br>GB,<br>KZ,<br>NZ,                             | GD,<br>LC,<br>PL, | GE,<br>LK,<br>PT,          | GH,<br>LR,<br>RO,                    | GM,<br>LS,<br>RU,                    | HR,<br>LT,<br>SD,                 | HU,<br>LU,<br>SE, | CH,<br>ID,<br>LV,<br>SG,<br>AZ,                    | IL,<br>MA,<br>SI,                    | IN,<br>MD,<br>SK, | IS,<br>MG,<br>SL, |
|                                  |  | GH,<br>DK,<br>CG,                                 | GM,<br>ES,<br>CI,               | KE,<br>FI,<br>CM,              | LS,<br>FR,<br>GA,               | GB,<br>GN,                           | GR,<br>GW,   | IE,<br>ML,        | IT,<br>MR,                 | LU,<br>NE,                           | MC,<br>SN,                           | NL,<br>TD,                        | PT,<br>TG         | BE,<br>SE,   | BF,                                  |                   |                   |
| BF                               | 5140<br>2000<br>1169   | 0094  | 86                              | A                              |                                 | 2002                                 | 0102   |                   | B                          | R 20                                 | 00-9                                 | 486                               |                   | 20000  | 0320                                 |                   |                   |
|                                  |  | IE,   | SI,                             | LT,                            | LV,                             | FI,                                  | RO   |                   |                            | GR,                                  | IT,                                  | LI,                               | LU,               | NL,  | SE,                                  | MC,               | PT,               |
| JE<br>AU<br>AU<br>US<br>HE<br>ZE | R 2001<br>P 2002<br>J 7678<br>J 2000<br>G 6528<br>R 2001<br>A 2001 | 0280<br>5401<br>30<br>0396<br>543<br>0006<br>0078 | 5<br>96<br>30<br>88<br>33       | T:<br>B:<br>A:<br>B<br>A:<br>A | 2<br>2<br>2<br>5<br>1           | 2002<br>2002<br>2003<br>2000<br>2003 | 0422<br>1126<br>1127<br>1016<br>0304<br>0630<br>1223 |                   | J.<br>Al<br>U:<br>H:<br>Z. | P 20<br>U 20<br>S 20<br>R 20<br>A 20 | 00-6<br>00-3<br>00-5<br>01-6<br>01-7 | 0799<br>9630<br>3250<br>88<br>833 | 6                 | 20000<br>20000<br>20000<br>20010<br>20010<br>20010 | 0320<br>0320<br>0321<br>0919<br>0921 |                   |                   |

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PRIORITY APPLN. INFO.:

US 1999-126707P P 19990329 US 1999-165944P P 19991117 US 1999-165948P P 19991117 WO 2000-EP2450 W 20000320

OTHER SOURCE(S):

GΙ

IΤ

MARPAT 133:281775

AB Title compds. [I; R1, R2 = H, halo, amino, hydroxyamino, NO2, cyano, sulfonamido, perfluoroalkyl, alkylthio, alkylsulfonyl, alkylsulfinyl, etc.; R3 = alkyl, cycloalkyl; R4 = CONHR40, (substituted) 5-6 membered heteroaryl; R40 = H, alkyl, alkenyl, hydroxyalkyl, haloalkyl, etc.], were prepared for treatment of type II diabetes. Thus, 3-cyclopentyl-2-(3,4-dichlorophenyl)propionic acid (preparation given), benzotriazol-1-yloxytris(dimethylamino)phosphonium hexafluorophosphate, and 2-aminothiazole in CH2Cl2 was treated with Et3N followed by 14 h stirring to give 3-cyclopentyl-2-(3,4-dichlorophenyl)-N-thiazol-2-ylpropionamide. I activated glucokinase in vitro with SCl.5≤30 μM.

IT 300352-96-9P 300353-06-4P 300353-14-4P 300353-44-0P 300354-22-7P 300354-34-1P 300356-30-3P

Ι

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of arylcycloalkylpropionamides as glucokinase activators)

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300356-87-0P 300363-04-6P 300363-05-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
   (preparation of arylcycloalkylpropionamides as glucokinase activators)
300355-17-3P 300355-48-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation of arylcycloalkylpropionamides as glucokinase activators)
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FILE 'REGISTRY' ENTERED AT 10:55:17 ON 08 JUN 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7 DICTIONARY FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

# Lambkin 10\_616359

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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L16 384 L11 NOT L14

=> d ide can 116 1 20 50 70 100 120 150 170 200 220 250 270 300 320 350 370 384

L16 ANSWER 1 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 625826-90-6 REGISTRY

CN Benzeneacetamide, 3-chloro-N-(5-chloropyrazinyl)- $\alpha$ -[(4-hydroxycyclohexyl)methyl]-4-(methylsulfonyl)-, ( $\alpha$ R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H23 C12 N3 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:395954

L16 ANSWER 20 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 625114-49-0 REGISTRY

CN Benzeneacetamide, 3-chloro- $\alpha$ -[[3-(methoxyimino)cyclopentyl]methyl]-4-(methylsulfonyl)-N-pyrazinyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-[3-Chloro-4-(methanesulfonyl)phenyl]-3-[3-(methoxyimino)cyclopentyl]-N-(pyrazin-2-yl)propionamide

FS 3D CONCORD

MF C20 H23 C1 N4 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### REFERENCE 1: 139:395954

L16 ANSWER 50 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 625112-91-6 REGISTRY

CN Benzeneacetamide, 3-chloro-N-(5-chloropyrazinyl)-4-(methylsulfonyl)- $\alpha$ -[(4-oxocyclohexyl)methyl]-, ( $\alpha$ R)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(R)-[3-Chloro-4-(methanesulfonyl)phenyl]-N-(5-chloropyrazin-2-yl)-3-(4-oxocyclohexyl)propionamide

FS STEREOSEARCH

MF C20 H21 C12 N3 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### REFERENCE 1: 139:395954

L16 ANSWER 70 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 588942-33-0 REGISTRY

CN Benzeneacetamide,  $\alpha$ -(cyclopentylmethyl)-4-(methylsulfonyl)-N-4-pyrimidinyl-3-(trifluoromethyl)-,  $(\alpha R)$ -(9CI) (CA INDEX NAME) OTHER NAMES:

CN 3-Cyclopentyl-2(R)-[4-(methanesulfonyl)-3-trifluoromethylphenyl]-N-pyrimidin-4-ylpropionamide

FS STEREOSEARCH

MF C20 H22 F3 N3 O3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry. Rotation (-).

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### REFERENCE 1: 139:214460

L16 ANSWER 100 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 588940-38-9 REGISTRY

CN Benzeneacetamide,  $\alpha$ -(cyclopentylmethyl)-3-fluoro-4-(methylsulfonyl)-N-2-thiazolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Cyclopentyl-2-[3-fluoro-4-(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide

FS 3D CONCORD

# Lambkin 10\_616359

C18 H21 F N2 O3 S2 MF

CASR

STN Files: CA, CAPLUS, USPATFULL LC

DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1: 139:214460 REFERENCE

L16 ANSWER 120 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

400610-38-0 REGISTRY RN

Benzeneacetamide, N-(5-bromo-2-pyridinyl)-3-chloro- $\alpha$ -CN

(cyclopentylmethyl)-4-(5-methyl-1H-tetrazol-1-yl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

N-(5-Bromopyridin-2-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-2-[3-chloro-4-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-cyclopentyl-3-(5-methyltetrazol-1-yl)-3-(5-methyltetrazol-CN yl)phenyl]propionamide

3D CONCORD FS

C21 H22 Br Cl N6 O . MF

SR

CA, CAPLUS, USPAT2, USPATFULL STN Files: LC

DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:183830

# Lambkin 10\_616359

L16 ANSWER 150 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 372509-52-9 REGISTRY

CN 4-Thiazoleacetic acid, 2-[[3-cyclopentyl-1-oxo-2-(4-

phenoxyphenyl)propyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H30 N2 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### REFERENCE 1: 135:357773

L16 ANSWER 170 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 372509-23-4 REGISTRY

CN 3-Pyridinecarboxylic acid, 6-[(2-[1,1'-biphenyl]-4-yl-3-cyclopentyl-1-oxopropyl)amino]-, methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H28 N2 O3

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

# REFERENCE 1: 135:357773

L16 ANSWER 200 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 372080-93-8 REGISTRY

CN Benzeneacetamide,  $\alpha$ -(cyclopentylmethyl)-4-(3-methoxy-1-propynyl)-N-2-thiazolyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H24 N2 O2 S

SR CA

LC STN Files: CA, CAPLUS, USPATZ, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

$$\begin{array}{c|c} \text{MeO-CH}_2\text{-C} & \equiv \text{C} \\ \hline \\ \text{O} \\ \hline \\ \text{CH}_2\text{-CH-C-NH-} \\ \end{array}$$

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

### REFERENCE 1: 135:357915

L16 ANSWER 220 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300355-44-6 REGISTRY

CN 4-Thiazolecarboxylic acid, 2-[[3-cyclopentyl-2-(4-nitrophenyl)-1-oxopropyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-[[3-Cyclopentyl-2-(4-nitrophenyl)propionyl]amino]thiazole-4-carboxylic acid ethyl ester

FS 3D CONCORD

MF C20 H23 N3 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 250 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300354-21-6 REGISTRY

CN Benzeneacetamide,  $\alpha$ -(cyclohexylmethyl)-4-(methylsulfonyl)-N-2-

thiazolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Cyclohexyl-2-[4-(methanesulfonyl)phenyl]-N-(thiazol-2-yl)propionamide

FS 3D CONCORD

MF C19 H24 N2 O3 S2

SR · CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 270 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300354-01-2 REGISTRY

CN Benzeneacetamide,  $\alpha$ -(cyclopentylmethyl)-N-2-thiazolyl-3-

(trifluoromethyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Cyclopentyl-N-(thiazol-2-yl)-2-(3-trifluoromethylphenyl)propionamide

FS 3D CONCORD

MF C18 H19 F3 N2 O S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 300 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300353-71-3 REGISTRY

CN 4-Thiazoleacetic acid, 2-[[3-cyclopentyl-1-oxo-2-[4[(trifluoromethyl)sulfonyl]phenyl]propyl]amino]-, ethyl ester (9CI) (CA
INDEX NAME)

OTHER NAMES:

CN [2-[[3-Cyclopentyl-2-[4-(trifluoromethanesulfonyl)phenyl]propionyl]amino]t hiazol-4-yl]acetic acid ethyl ester

FS 3D CONCORD

MF C22 H25 F3 N2 O5 S2

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 320 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300353-51-9 REGISTRY

CN 3-Pyridinecarboxylic acid, 6-[[3-cyclopentyl-2-(3,4-dichlorophenyl)-1-

oxopropyl]amino]- (9CI) (CA INDEX NAME)

OTHER NAMES:

6-[[3-Cyclopentyl-2-(3,4-dichlorophenyl)propionyl]amino]nicotinic acid CN

3D CONCORD FS

C20 H20 C12 N2 O3 MF

SR CA

CA, CAPLUS, USPATZ, USPATFULL STN Files: LC

DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); RACT RL.P

(Reactant or reagent); USES (Uses)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

ANSWER 350 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN L16

RN 300353-19-9 REGISTRY

5-Thiazolecarboxylic acid, 2-[[3-cyclopentyl-2-(3,4-dichlorophenyl)-1-CN

oxopropyl]amino]- (9CI) (CA INDEX NAME)

OTHER NAMES:

2-[[3-Cyclopentyl-2-(3,4-dichlorophenyl)propionyl]amino]thiazole-5-CN

carboxylic acid

3D CONCORD FS

MF C18 H18 C12 N2 O3 S

SR CA

CA, CAPLUS, USPATZ, USPATFULL STN Files: LC

DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); RACT RL.P (Reactant or reagent); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 370 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300352-99-2 REGISTRY

CN 4-Thiazoleacetic acid, 2-[[3-cyclopentyl-2-[4-(methylsulfonyl)phenyl]-1-oxopropyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN [2-[[3-Cyclopentyl-2-[4-(methanesulfonyl)phenyl]propionyl]amino]thiazol-4-yl]acetic acid methyl ester

FS 3D CONCORD

MF C21 H26 N2 O5 S2

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

REFERENCE 2: 133:281775

L16 ANSWER 384 OF 384 REGISTRY COPYRIGHT 2004 ACS on STN

RN 300352-85-6 REGISTRY

CN Benzeneacetamide, 3,4-dichloro- $\alpha$ -(cyclopentylmethyl)-N-2-thiazolyl-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Cyclopentyl-2-(3,4-dichlorophenyl)-N-(thiazol-2-yl)propionamide

FS 3D CONCORD

MF C17 H18 C12 N2 O S

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:214460

2: 133:281775 REFERENCE

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=> d stat que 118 nos

STR L3

842 SEA FILE=REGISTRY SSS FUL L3 L5

STR L10

389 SEA FILE=REGISTRY SUB=L5 SSS FUL L10 L11

3 SEA FILE=BEILSTEIN SSS FUL L10 L17

1 SEA FILE=BEILSTEIN ABB=ON PLU=ON L17 NOT L11 L18

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=> d brn cn mf fw ln bso str

# ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):

2,3-diphenyl-propionic Chemical Name (CN):

acid-<2>pyridylamide; picrate

3882737

C20 H18 N2 O . C6 H3 N3 O7 Molecular Formula (MF):

Molecular Weight (MW):

302.38, 229.11 27378, 10795, 5222 Lawson Number (LN):

Beilstein Citation (BSO): 4-22-00-03888

1 CM

FBRN 423400 FMF C6 H3 N3 O7

CM 2

FBRN 258797 FMF C20 H18 N2 O